

Claudius HEYER : *Parabolic induction for pro-p Iwahori-Hecke modules*

*Abstract* : The pro- $p$  Iwahori-Hecke algebra is fundamental for studying smooth mod- $p$  representations of a connected reductive group  $G$  over a non-Archimedean local field  $F$  of residue characteristic  $p$ . The parabolic induction functor in this context was introduced by Ollivier in 2010 for  $GL(n, F)$ . Using Bruhat-Tits theory we will give a new construction, which is closely modeled on parabolic induction for smooth  $G$ -representations. This new approach leads to a natural proof of the transitivity property.